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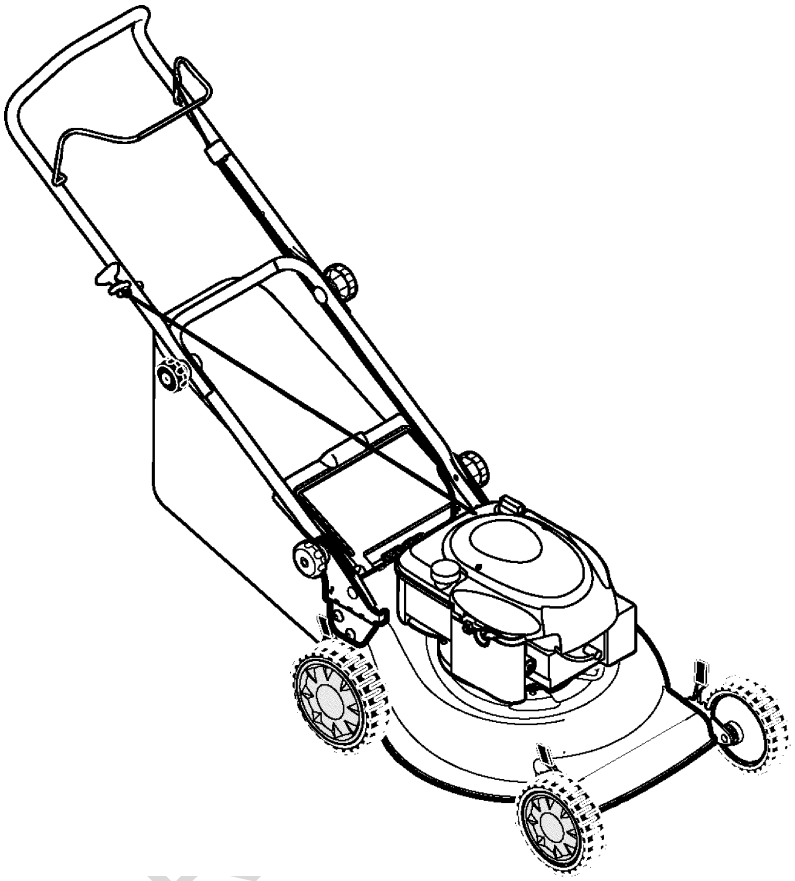
PARTS LIST



Models

Mfg. No.	Description
881020	MP450, 16" Walk Behind, CE (2010)

Manual Part No. 881122
Revision A
Rev. Date: 9/23/2009

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PRODUCT COMPONENTS **PAGES**

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Handle Assembly

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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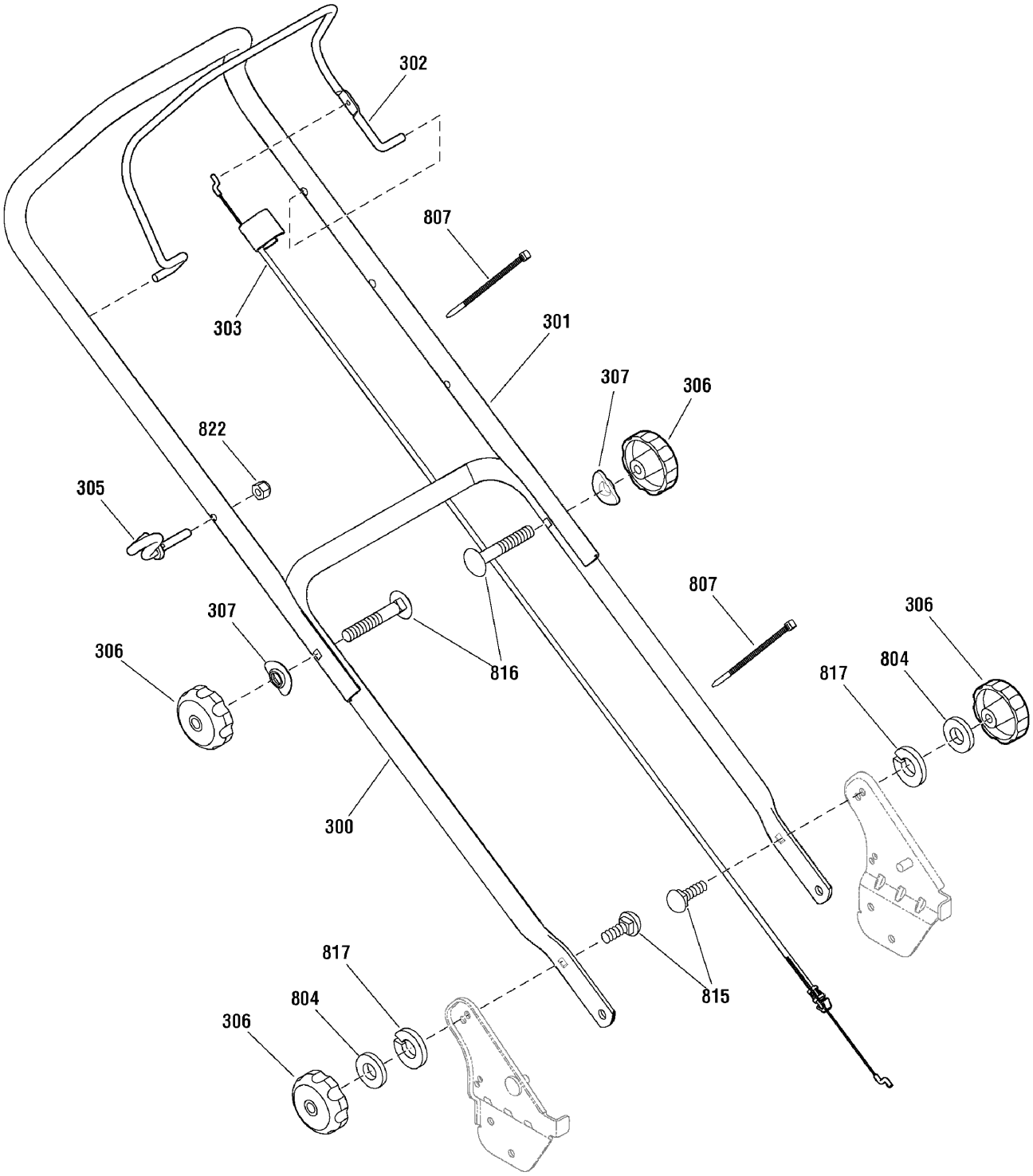

The above parts group applies to the following Mfg. Nos.:
881020 - MP450

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Handle Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
300	880608AYP	1	HANDLE, Lower
301	880470AYP	1	HANDLE, Upper
302	880637BNYP	1	LEVER, Engine Stop
303	880279YP	1	CABLE, Engine Stop
305	672510MA	1	GUIDE, Rope, 1/4-20
307	880615YP	1	WASHER, Formed
306	881056YP	4	KNOB, 5/16-18
804	880607YP	1	WASHER, 5/8
807	880029YP	1	CABLE TIE
815	880576YP	1	BOLT, Carriage, 5/16-18 x 1-1/8
816	002X77MA	1	BOLT, Carriage, 5/16-18 x 2
817	22129GS	1	Washer, Lock
822	15X116MA	1	NUT, Hex, 1/4-20

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Footnotes

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881020 - MP450

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Deck & Engine Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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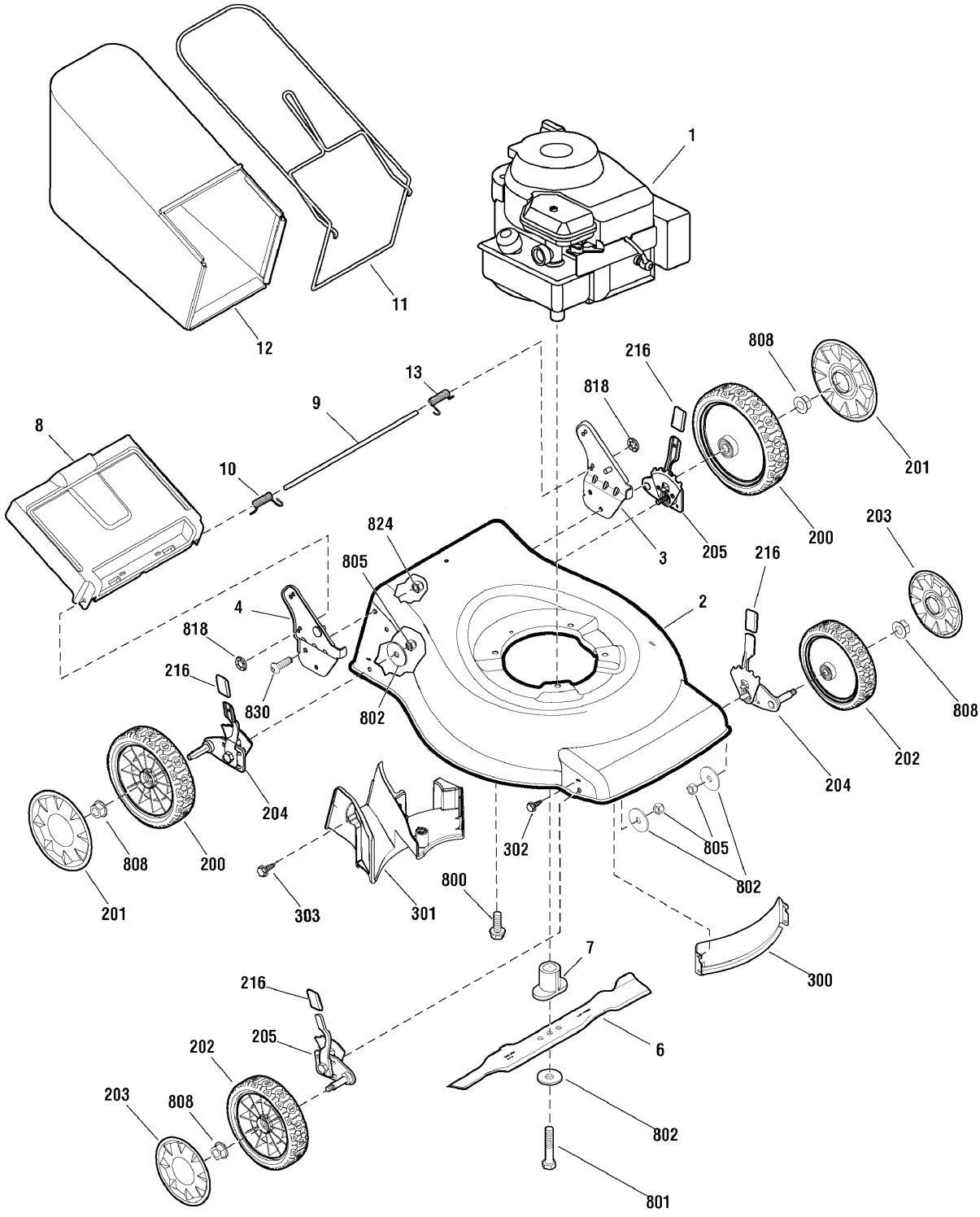

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881020 - MP450

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Deck & Engine Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	09T502-0130-B1	1	*ENGINE (Engine Model: 09T502-0130-B1)
2	881119BIYP	1	MOWER HOUSING (Includes Ref. Nos. 300 & 302)
3	880951AYP	1	BRACKET ASSEMBLY, Left Handle
4	880950AYP	1	BRACKET ASSEMBLY, Right Handle
6	881076YP	1	BLADE, 16 in
7	880009YP	1	BLADE ADAPTER ASSEMBLY
8	880661YP	1	DOOR, Rear
9	880213YP	1	ROD, Rear Door
10	880942YP	1	SPRING, Torsion Rear Door, Right
11	880944BNYP	1	FRAME ASSEMBLY
12	880947YP	1	BAG ASSEMBLY
200	880703YP	1	WHEEL, Rear
13	880943YP	1	SPRING, Torsion Rear Door, Left
201	880698YP	1	HUBCAP, Rear
202	880702YP	1	WHEEL, Front
203	880697YP	1	HUBCAP, Front
204	880106YP	1	HEIGHT ADJUSTER ASSEMBLY, Left
205	880115YP	1	HEIGHT ADJUSTER ASSEMBLY, Right
216	880542YP	4	GRIP, Height Adjustment
300	880794BIYP	1	BAFFLE, Front, 16
301	880793YP	1	BAFFLE, Rear, 16
302	880664YP	5	SCREW, Pan Head, Taptite, 1/4-20 x 1/2
303	880804YP	5	SCREW, Pan Head, Taptite, 1/4-15 x 5/8
800	0025X6MA	1	SCREW, Hex Head, 3/8-16 x 1
801	880034YP	1	BOLT, Blade, 3/8-24 x 2
802	1101989MA	1	WASHER, Belleville
805	880020YP	1	NUT, Nylock, M8 x 1-1/4
808	015X84MA	1	NUT, Flange, 3/8-16
809	26X245MA	1	SCREW, Self Tap, #10-16 x 1/2
818	880614YP	1	NUT, Speed
824	015X88MA	1	Nut, Flange, 5/16-18
830	48901MA	1	SCREW , 5/16-18 x 3/4
1000	700267YP	1	DECAL KIT

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Footnotes

NOTE: * Purchase engine parts from engine manufacturer dealer.

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881020 - MP450

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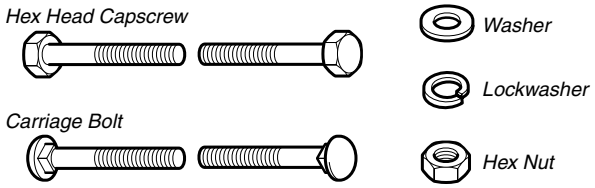
Hardware Identification & Torque Specifications

Common Hardware Types

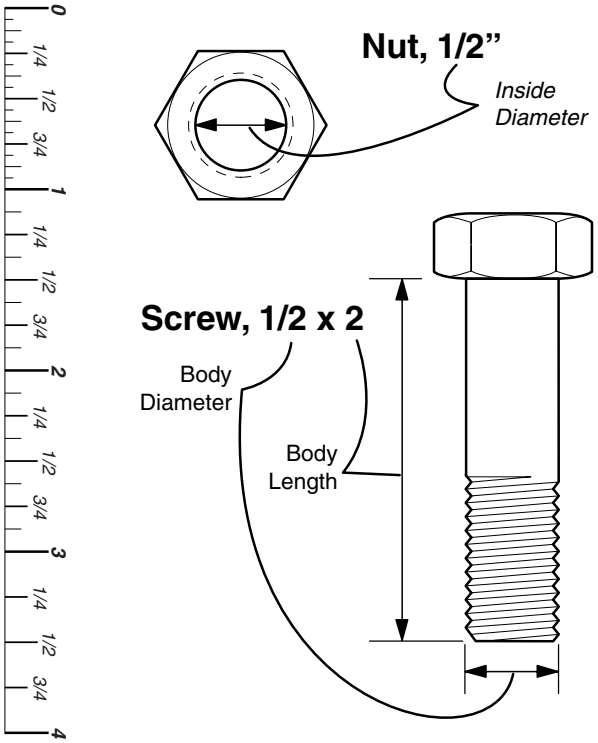


Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represent the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.



Torque Specification Chart

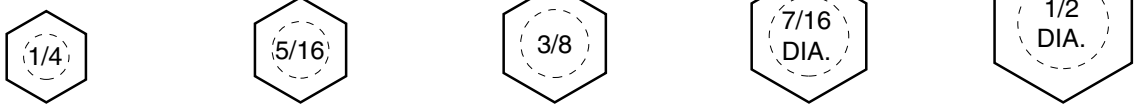
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	**in/lbs** **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**27**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Wrench & Fastener Size Guide



1/4" Bolt or Nut
Wrench—7/16"

5/16" Bolt or Nut
Wrench—1/2"

3/8" Bolt or Nut
Wrench—9/16"

7/16" Bolt or Nut
Wrench (Bolt)—5/8"
Wrench (Nut)—11/16"

1/2" Bolt or Nut
Wrench—3/4"

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